

REINER FISCHER ET AL.

USSN 08/470,563

REPLY TO OFFICE ACTION DATED JUNE 11, 2003

AMENDMENT DATED DECEMBER 11, 2003

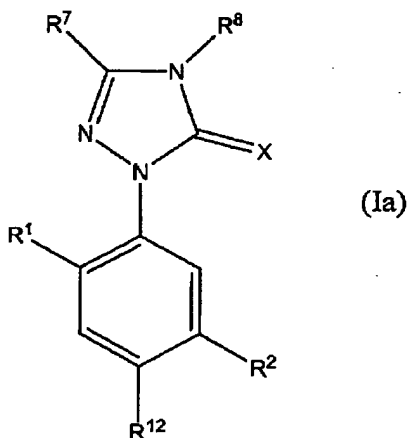
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-35. (Canceled)

36. (New) A substituted triazolinone of the formula (Ia):



wherein

R¹ represents hydrogen, fluorine, chlorine, bromine or iodine;

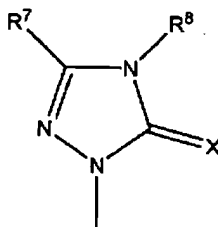
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R^2 represents nitro, cyano, fluorine, chlorine, bromine, iodine, R^{13} , $-O-R^{13}$, $-S-R^{13}$, $-S(O)-R^{13}$, $-SO_2-R^{13}$, $-O-SO_2-R^{13}$, $-SO_2-O-R^{13}$, $-C(O)-O-R^{13}$, $-NR^{13}R^{14}$, $-SO_2-NR^{13}R^{14}$, $-C(O)-NR^{13}R^{14}$, $-NH-P(O)(OR^{13})(R^{14})$, $-NH-P(O)(OR^{13})(OR^{14})$, or a radical of the formula:



R^7 represents straight-chain or branched halogenoalkyl having 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

R^8 represents hydrogen, amino, cyano, straight-chain or branched alkyl having 1 to 8 carbon atoms, in each case straight-chain or branched alkenyl or alkynyl having 2 to 6 carbon atoms, straight-chain or branched halogenoalkyl having 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms, in each case straight-chain or branched halogenoalkenyl or halogenoalkynyl having 2 to 6 carbon atoms and 1 to 11 different halogen atoms, straight-chain or branched alkoxyalkyl having 1 to 4 carbon atoms in the alkoxy moiety and 1 to 4 carbon atoms in the alkyl moiety,

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straight-chain or branched alkylideneimino having 1 to 8 carbon atoms, or cycloalkyl or cycloalkylalkyl each of which has 3 to 8 carbon atoms in the cycloalkyl moiety and, in the case of cycloalkylalkyl, has 1 to 4 carbon atoms in the alkyl moiety, and each of which is optionally monosubstituted or polysubstituted in the cycloalkyl moiety by identical or different halogen substituents;

R^{12} represents cyano or nitro;

X represents oxygen or sulfur;

R^{13} and R^{14} independently represent hydrogen or straight-chain or branched alkyl which has 1 to 8 carbon atoms and which is optionally monosubstituted or polysubstituted by identical or different substituents selected from the group consisting of:

halogen, cyano, carboxyl, carbamoyl, in each case straight-chain or branched alkoxy, alkoxyalkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxycarbonyl, alkoxycarbonylalkyl, N-alkylaminocarbonyl, cycloalkylaminocarbonyl, N,N-dialkylaminocarbonyl, trialkylsilyl or alkylsulphonylaminocarbonyl, each of

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which has 1 to 8 carbon atoms in the individual alkyl moieties;

R^{13} and R^{14} furthermore represent alkenyl or alkynyl, each of which has 2 to 8 carbon atoms and each of which is optionally monosubstituted or polysubstituted by identical or different halogen substituents;

R^{13} and R^{14} furthermore represent cycloalkyl which has 3 to 7 carbon atoms and which is optionally monosubstituted or polysubstituted by identical or different halogen substituents or by straight-chain or branched alkyl having 1 to 4 carbon atoms, or represent C_3 - C_7 -cycloalkyl- C_1 - C_3 -alkyl;

R^{13} and R^{14} furthermore represent arylalkyl or aryl, each of which has 6 to 10 carbon atoms in the aryl moiety and, when present, 1 to 4 carbon atoms in the straight-chain or branched alkyl moiety, and each of which is optionally monosubstituted or polysubstituted in the aryl moiety by identical or different substituents selected from the group consisting of:

halogen, cyano, nitro, in each case straight-chain or branched alkyl, alkoxy, alkylthio, alkylsulphinyl or alkylsulphonyl, each of which has 1 to 6 carbon atoms, in each case straight-chain or branched halogenoalkyl, halogenoalkoxy,

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halogenoalkylthio, halogenoalkylsulphinyl or halogenoalkylsulphonyl, each of which has 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms, in each case straight-chain or branched alkoxycarbonyl or alkoximinoalkyl, each of which has 1 to 6 carbon atoms in the individual alkyl moieties, and phenyl which is optionally monosubstituted or polysubstituted by identical or different halogen substituents and/or by straight-chain or branched alkyl or alkoxy, each of which has 1 to 6 carbon atoms, and/or by straight-chain or branched halogenoalkyl or halogenoalkoxy, each of which has 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms.

37. (New) The substituted triazolinone according to claim 36,
wherein

R^1 represents hydrogen, fluorine, chlorine or bromine;

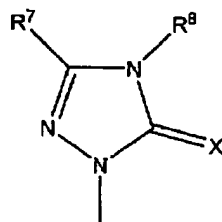
R^2 represents nitro, cyano, fluorine, chlorine, bromine, R^{13} , $-O-R^{13}$, $-S-R^{13}$, $-S(O)-R^{13}$, $-SO_2-R^{13}$, $-O-SO_2-R^{13}$, $-SO_2-O-R^{13}$, $-C(O)-O-R^{13}$, $-NR^{13}R^{14}$, $-SO_2-NR^{13}R^{14}$, $-C(O)-NR^{13}R^{14}$, $-NH-P(O)(OR^{13})(R^{14})$, $-NH-P(O)(OR^{13})(OR^{14})$, or a radical of the formula:

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R⁷ represents straight-chain or branched halogenoalkyl having 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms;

R⁸ represents hydrogen, amino, cyano, straight-chain or branched alkyl having 1 to 6 carbon atoms, in each case straight-chain or branched alkenyl or alkynyl having 2 to 4 carbon atoms, straight-chain or branched halogenoalkyl having 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms, in each case straight-chain or branched halogenoalkenyl or halogenoalkynyl having 2 to 4 carbon atoms and 1 to 7 different halogen atoms, straight-chain or branched alkoxyalkyl having 1 to 3 carbon atoms in the alkoxy moiety and 1 to 3 carbon atoms in the alkyl moiety, straight-chain or branched alkylideneimino having 1 to 6 carbon atoms, or cycloalkyl or cycloalkylalkyl each of which has 3 to 7 carbon atoms in the cycloalkyl moiety and, in the case of cycloalkylalkyl, has 1 to 3 carbon atoms in the alkyl moiety, and each of which is optionally monosubstituted to tetrasubstituted in the cycloalkyl moiety by identical or different halogen

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substituents;

R^{12} represents cyano or nitro;

X represents oxygen or sulfur;

R^{13} and R^{14} independently represent hydrogen or straight-chain or branched alkyl which has 1 to 6 carbon atoms and which is optionally monosubstituted by a substituent selected from the group consisting of:

cyano, carboxyl, carbamoyl, in each case straight-chain or branched alkoxy, alkoxyalkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxycarbonyl, alkoxycarbonylalkyl, N-alkylaminocarbonyl, N,N-dialkylaminocarbonyl, trialkylsilyl or alkylsulphonylaminocarbonyl, each of which has 1 to 6 carbon atoms in the individual alkyl moieties;

R^{13} and R^{14} furthermore represent straight-chain or branched halogenoalkyl having 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms, which is optionally substituted by C_{1-2} -alkoxycarbonyl, C_{1-6} -cycloalkylaminocarbonyl or cyano;

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R^{13} and R^{14} furthermore represent alkenyl or alkynyl, each of which has 2 to 6 carbon atoms and each of which is optionally monosubstituted or trisubstituted by identical or different halogen substituents;

R^{13} and R^{14} furthermore represent cycloalkyl which has 3 to 6 carbon atoms and which is optionally monosubstituted to tetrasubstituted by identical or different halogen substituents or by straight-chain or branched alkyl having 1 to 3 carbon atoms, or represent C_3 - C_6 -cycloalkyl- C_1 - C_2 -alkyl;

R^{13} and R^{14} furthermore represent phenylalkyl or phenyl, the phenylalkyl having 1 to 3 carbon atoms in the straight-chain or branched alkyl moiety, and each of which is optionally monosubstituted to trisubstituted in the phenyl moiety by identical or different substituents selected from the group consisting of:

halogen, cyano, nitro, in each case straight-chain or branched alkyl, alkoxy, alkylthio, alkylsulphinyl or alkylsulphonyl, each of which has 1 to 4 carbon atoms, in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulphinyl or halogenoalkylsulphonyl, each of which has 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms, in each case straight-chain or branched alkoxycarbonyl or alkoximinoalkyl, each of

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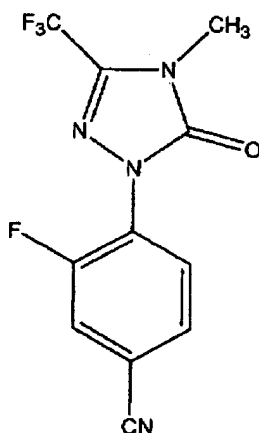
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which has 1 to 4 carbon atoms in the individual alkyl moieties, and phenyl which is optionally monosubstituted or polysubstituted by identical or different halogen substituents and/or by straight-chain or branched alkyl or alkoxy, each of which has 1 to 4 carbon atoms, and/or by straight-chain or branched halogenoalkyl or halogenoalkoxy, each of which has 1 to 4 carbon atoms and 1 to 9 identical or different halogen atoms.

38. (New) The substituted triazolinone according to claim 36, which is 1-(4-cyano-2-fluorophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one of the formula:



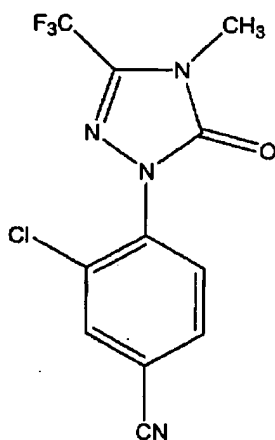
39. (New) The substituted triazolinone according to claim 36, which is 1-(2-chloro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one of the formula:

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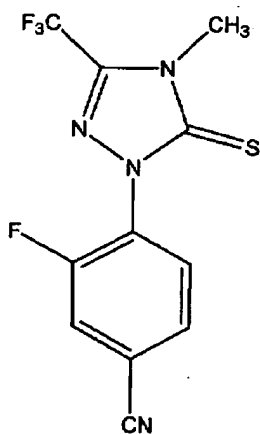
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40. (New) The substituted triazolinone according to claim 36, which is 1-(2-fluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione of the formula:



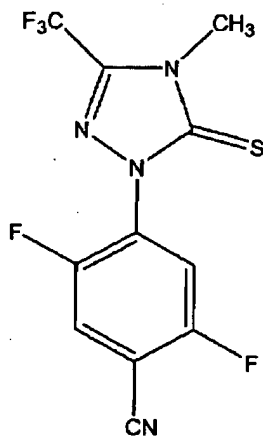
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41. (New) The substituted triazolinone according to claim 36, which is 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione of the formula:



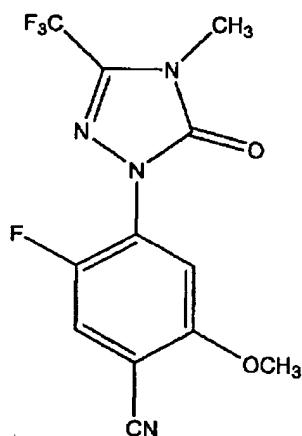
42. (New) The substituted triazolinone according to claim 36, which is 1-(2-fluoro-4-cyano-5-methoxyphenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one of the formula:

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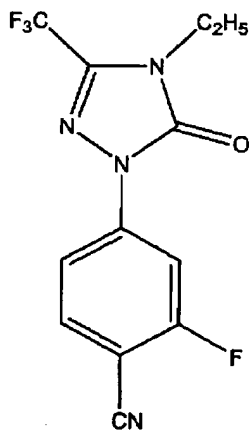
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43. (New) The substituted triazolinone according to claim 36, which is 1-(4-cyano-3-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one of the formula:



44. (New) The substituted triazolinone according to claim 36, which is 1-(5-

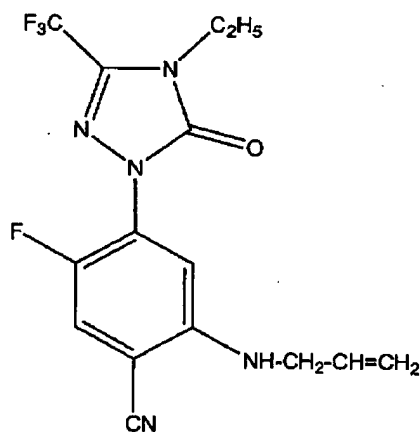
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allylamino-4-cyano-2-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one of the formula:



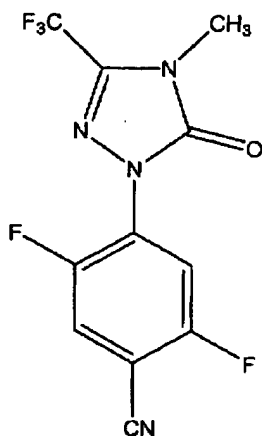
45. (New) The substituted triazolinone according to claim 36, which is 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one of the formula:

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46. (New) A herbicidal or plant growth-regulating composition comprising an effective amount therefor of a substituted triazolinone according to claim 36 and a diluent.

47. (New) The herbicidal or plant growth-regulating composition according to claim 46, wherein the substituted triazolinone is selected from the group consisting of:

- a) 1-(4-cyano-2-fluorophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- b) 1-(2-chloro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- c) 1-(2-fluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione;

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- d) 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione;
- e) 1-(2-fluoro-4-cyano-5-methoxyphenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- f) 1-(4-cyano-3-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- g) 1-(5-allylamino-4-cyano-2-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one; and
- h) 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one.

48. (New) A method of combating unwanted vegetation which comprises applying to such vegetation or to a locus from which it is desired to exclude such vegetation a herbicidally effective amount of a triazolinone according to claim 36.

49. (New) The method according to claim 48, wherein the triazolinone is selected from the group consisting of:

- a) 1-(4-cyano-2-fluorophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;

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- b) 1-(2-chloro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- c) 1-(2-fluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione;
- d) 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione;
- e) 1-(2-fluoro-4-cyano-5-methoxyphenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- f) 1-(4-cyano-3-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- g) 1-(5-allylamino-4-cyano-2-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one; and
- h) 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one.

50. (New) A method for regulating the growth of plants which comprises applying to such plants or to a locus in which such plants are grown or are to be grown a plant growth regulating effective amount of a substituted triazolinone according to claim 36.

51. (New) The method according to claim 50, wherein the triazolinone is selected

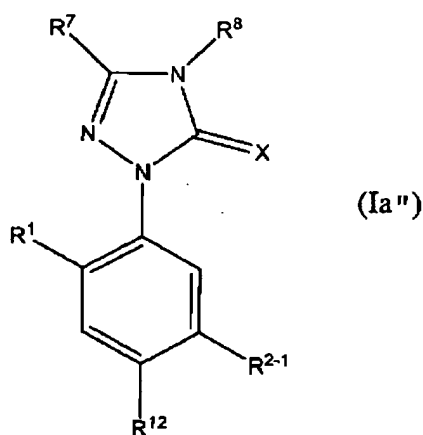
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from the group consisting of:

- a) 1-(4-cyano-2-fluorophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- b) 1-(2-chloro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- c) 1-(2-fluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione;
- d) 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-thione;
- e) 1-(2-fluoro-4-cyano-5-methoxyphenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- f) 1-(4-cyano-3-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one;
- g) 1-(5-allylamino-4-cyano-2-fluorophenyl)-4-ethyl-3-trifluoromethyl-1,2,4-triazolin-5-one; and
- h) 1-(2,5-difluoro-4-cyanophenyl)-4-methyl-3-trifluoromethyl-1,2,4-triazolin-5-one.

52. (New) A substituted triazolinone of the formula (Ia"):

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wherein

R^1 represents hydrogen, fluorine, chlorine, bromine or iodine;

R^{2-1} represents fluorine, chlorine, bromine or iodine;

R^7 represents straight-chain or branched halogenoalkyl having 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

R^8 represents hydrogen, amino, cyano, straight-chain or branched alkyl having 1 to 8 carbon atoms, in each case straight-chain or branched alkenyl or alkynyl having 2 to 6 carbon atoms, straight-chain or branched halogenoalkyl having 1 to 6 carbon

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atoms and 1 to 13 identical or different halogen atoms, in each case straight-chain or branched halogenoalkenyl or halogenoalkinyl having 2 to 6 carbon atoms and 1 to 11 different halogen atoms, straight-chain or branched alkoxyalkyl having 1 to 4 carbon atoms in the alkoxy moiety and 1 to 4 carbon atoms in the alkyl moiety, straight-chain or branched alkylideneimino having 1 to 8 carbon atoms, or cycloalkyl or cycloalkylalkyl each of which has 3 to 8 carbon atoms in the cycloalkyl moiety and, in the case of cycloalkylalkyl, has 1 to 4 carbon atoms in the alkyl moiety, and each of which is optionally monosubstituted or polysubstituted in the cycloalkyl moiety by identical or different halogen substituents;

R¹² represents cyano or nitro; and

X represents oxygen or sulfur.

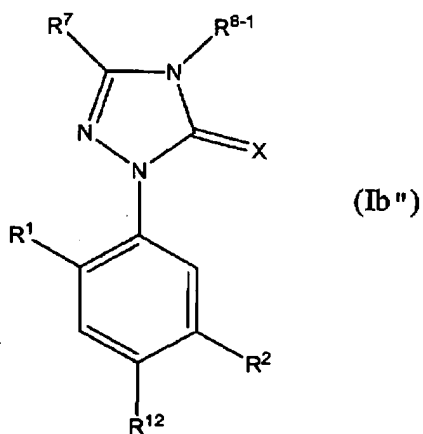
53. (New) A substituted triazolinone of the formula (Ib"):

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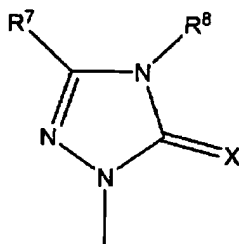
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wherein

R^1 represents hydrogen, fluorine, chlorine, bromine or iodine;

R^2 represents nitro, cyano, fluorine, chlorine, bromine, iodine, R^{13} , $-O-R^{13}$, $-S-R^{13}$, $-S(O)-R^{13}$, $-SO_2-R^{13}$, $-O-SO_2-R^{13}$, $-SO_2-O-R^{13}$, $-C(O)-O-R^{13}$, $-NR^{13}R^{14}$, $-SO_2-NR^{13}R^{14}$, $-C(O)-NR^{13}R^{14}$, $-NH-P(O)(OR^{13})(R^{14})$, $-NH-P(O)(OR^{13})(OR^{14})$, or a radical of the formula:



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R^7 represents straight-chain or branched halogenoalkyl having 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

R^{8-1} represents amino;

R^{12} represents cyano or nitro;

X represents oxygen or sulfur;

R^{13} and R^{14} independently represent hydrogen or straight-chain or branched alkyl which has 1 to 8 carbon atoms and which is optionally monosubstituted or polysubstituted by identical or different substituents selected from the group consisting of:

halogen, cyano, carboxyl, carbamoyl, in each case straight-chain or branched alkoxy, alkoxyalkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxycarbonyl, alkoxycarbonylalkyl, N-alkylaminocarbonyl, cycloalkylaminocarbonyl, N,N-dialkylaminocarbonyl, trialkylsilyl or alkylsulphonylaminocarbonyl, each of which has 1 to 8 carbon atoms in the individual alkyl moieties;

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R¹³ and R¹⁴ furthermore represent alkenyl or alkynyl, each of which has 2 to 8 carbon atoms and each of which is optionally monosubstituted or polysubstituted by identical or different halogen substituents;

R¹³ and R¹⁴ furthermore represent cycloalkyl which has 3 to 7 carbon atoms and which is optionally monosubstituted or polysubstituted by identical or different halogen substituents or by straight-chain or branched alkyl having 1 to 4 carbon atoms;

R¹³ and R¹⁴ furthermore represent aryl, which has 6 to 10 carbon atoms in the aryl moiety and is optionally monosubstituted or polysubstituted in the aryl moiety by identical or different substituents selected from the group consisting of:

halogen, cyano, nitro, in each case straight-chain or branched alkyl, alkoxy, alkylthio, alkylsulphinyl or alkylsulphonyl, each of which has 1 to 6 carbon atoms, in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulphinyl or halogenoalkylsulphonyl, each of which has 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms, in each case straight-chain or branched alkoxycarbonyl or alkoximinoalkyl, each of which has 1 to 6 carbon atoms in the individual alkyl moieties, and phenyl which

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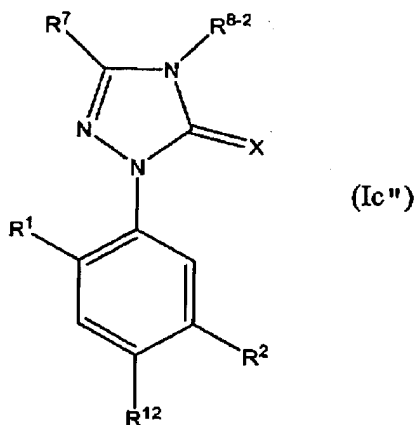
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is optionally monosubstituted or polysubstituted by identical or different halogen substituents and/or by straight-chain or branched alkyl or alkoxy, each of which has 1 to 6 carbon atoms, and/or by straight-chain or branched halogenoalkyl or halogenoalkoxy, each of which has 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms.

54. (New) A substituted triazolinone of the formula (Ic''):



wherein

R¹ represents hydrogen, fluorine, chlorine, bromine or iodine;

R² represents nitro, cyano, fluorine, chlorine, bromine, iodine, R¹³, -O-R¹³, -S-R¹³,

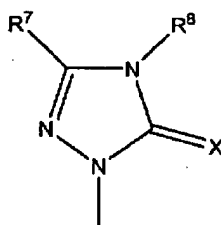
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$-\text{S}(\text{O})-\text{R}^{13}$, $-\text{SO}_2-\text{R}^{13}$, $-\text{O}-\text{SO}_2-\text{R}^{13}$, $-\text{SO}_2-\text{O}-\text{R}^{13}$, $-\text{C}(\text{O})-\text{O}-\text{R}^{13}$, $-\text{NR}^{13}\text{R}^{14}$,
 $-\text{SO}_2-\text{NR}^{13}\text{R}^{14}$, $-\text{C}(\text{O})-\text{NR}^{13}\text{R}^{14}$, $-\text{NH}-\text{P}(\text{O})(\text{OR}^{13})(\text{R}^{14})$, $-\text{NH}-\text{P}(\text{O})(\text{OR}^{13})(\text{OR}^{14})$, or
a radical of the formula:



R^7 represents straight-chain or branched halogenoalkyl having 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

R^{8-2} represents hydrogen;

R^{12} represents cyano or nitro;

X represents oxygen or sulfur;

R^{13} and R^{14} independently represent hydrogen or straight-chain or branched alkyl which has 1 to 8 carbon atoms and which is optionally monosubstituted or

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REPLY TO OFFICE ACTION DATED JUNE 11, 2003
AMENDMENT DATED DECEMBER 11, 2003

polysubstituted by identical or different substituents selected from the group consisting of:

halogen, cyano, carboxyl, carbamoyl, in each case straight-chain or branched alkoxy, alkoxyalkoxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxycarbonyl, alkoxycarbonylalkyl, N-alkylaminocarbonyl, cycloalkylaminocarbonyl, N,N-dialkylaminocarbonyl, trialkylsilyl or alkylsulphonylaminocarbonyl, each of which has 1 to 8 carbon atoms in the individual alkyl moieties;

R¹³ and R¹⁴ furthermore represent alkenyl or alkynyl, each of which has 2 to 8 carbon atoms and each of which is optionally monosubstituted or polysubstituted by identical or different halogen substituents;

R¹³ and R¹⁴ furthermore represent cycloalkyl which has 3 to 7 carbon atoms and which is optionally monosubstituted or polysubstituted by identical or different halogen substituents or by straight-chain or branched alkyl having 1 to 4 carbon atoms;

R¹³ and R¹⁴ furthermore represent aryl, which has 6 to 10 carbon atoms in the aryl moiety and is optionally monosubstituted or polysubstituted in the aryl moiety by identical or different substituents selected from the group consisting of:

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halogen, cyano, nitro, in each case straight-chain or branched alkyl, alkoxy, alkylthio, alkylsulphinyl or alkylsulphonyl, each of which has 1 to 6 carbon atoms, in each case straight-chain or branched halogenoalkyl, halogenoalkoxy, halogenoalkylthio, halogenoalkylsulphinyl or halogenoalkylsulphonyl, each of which has 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms, in each case straight-chain or branched alkoxycarbonyl or alkoximinoalkyl, each of which has 1 to 6 carbon atoms in the individual alkyl moieties, and phenyl which is optionally monosubstituted or polysubstituted by identical or different halogen substituents and/or by straight-chain or branched alkyl or alkoxy, each of which has 1 to 6 carbon atoms, and/or by straight-chain or branched halogenoalkyl or halogenoalkoxy, each of which has 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms.